PMRF Building 969

Building 969 at PMRF is located in the vicinity of the Fire Station, Base Security, and the airport control tower. The building is approximately 3,000 square feet in area, of which approximately 2,000 square feet is dedicated to PMRF office use. The remaining area of approximately 1,000 square feet consists of an open laboratory space with dimensions of approximately 30X35 feet. This space has been set aside for the Force Protection Program.

Building 969 is air-conditioned, well insulated, and very energy efficient. Ceiling heights are approximately nine feet and the floors have a weight capacity of 300 lbs/sq ft. A set of double doors at the back of the building allows large objects to be loaded into the lab space. Electrical outlets are located throughout the lab and electrical service for 110 VAC and 220 VAC is available. Fiber optic cables connect the building to the rest of PMRF for communication purposes.

Building 969 is located approximately 300 yards from the ocean and is at an elevation of approximately ten feet above sea level. The building is a single story, relocatable structure that can withstand winds up to 140 MPH. The outdoor environment in the vicinity of Building 969 is relatively dry most of the year with high temperatures in the low 90s. In the winter heavy rains often occur. Thunderstorms are not common but do occur a few times each year.

Severe weather is uncommon; however, both hurricanes and tsunamis have hit Kauai in the last twenty years.

General Behavioral Patterns on Base

Approximately 400 contractor people and about 100 Navy personnel work at PMRF. Each workday several delivery trucks arrive carrying packages. U.S. mail is also delivered every day. Several other trucks such as garbage trucks, construction trucks, and utility trucks arrive several times each day. The base averages about twenty official visitors per day and about twenty recreational visitors each day. Holiday weekends will often have many more recreational visitors.

Barking Sands airport has almost no commercial traffic. Approximately twenty flights each day land and depart Barking Sands. Most of these are aircraft operated by the Range. However, other users are the Air Force Air Mobility Command, Hawaii Air National Guard, Navy patrol aircraft, Coast Guard Patrol aircraft, plus a few specialized aircraft.

Fishermen enter the base to fish from the shore and local fishing boats enter PMRF waters when range operations are not underway.

Current Base Security

The relative degree of security for areas is outlined on the attached maps. The highest degree of security is in the Building 105, Range Command, vicinity, while the least evidence of security is in the beach recreation areas. Security measures that are not obvious may also be in place in all areas.

Security Prioritization

For the Force Protection program, the Building 105 area has been selected as the best demonstration area and should receive the highest priority. Other areas that might be good candidates for protection and should also receive high priority are the power plant area, the base housing area, and the base water supply.

Force Protection Sensors

PMRF has several base security systems in place that perform certain surveillance functions. These sensors are a stand-alone system, operated by PMRF security for a variety of purposes. At the present time these sensors are not dedicated to the Force Protection Program and offerors should not assume that any of these would be made available for this purpose.

Sensors for the Force Protection Program will need to be located where they can perform their mission in an optimal manner. Sensor output will be routed to Building 969, which will be used as a prototype command center for the Force Protection Program. Transmission of sensor data may be via fiber optic cable, RF signals, or other means.

It is anticipated that sensors of various types may be employed in the vicinity of the entrance gate, the range command building, and other selected locations. Passive sensors must be able to operate in an environment that is subject to RF interference at several frequencies. Active sensors must operate on a not-to-interfere basis with range operations and range safety. Any sensors that emit RF radiation must have approval from the PMRF frequency coordination office before they can be used. Other types of sensors must be able to operate in a mode that is safe for all personnel and does not interfere with range or flight operations.

Sensors unlikely to be acceptable to PMRF fall in the following classes:

- Sensors that emit nuclear radiation
- Sensors that can see through clothing
- Sensors that emit harmful levels of RF radiation
- Sensors that emit RF energy at frequencies that are critical to PMRF operations, e.g. Sensors that emit RF radiation at the command destruct frequencies of test missiles (usually in the vicinity of 400MHz, exact frequencies are available from PMRF)

- Sensors employing lasers that emit levels of radiation that are not eye safe

In general any sensor that is potentially harmful to humans or that would interfere with base operations.

Range Assets and Procedures

PMRF has several security related systems that may work in conjunction with the Force Protection system. These PMRF systems may range from perimeter security fences to surveillance cameras to sophisticated alarm systems and other devices. Developers of Force Protection Systems should confer directly with PMRF to determine whether these systems are available for their use and compatible with their systems. PMRF security systems are maintained by ITT, the base contractor and a cost may be associated with their use for Force Protection. The following PMRF assets may be available for joint use at PMRF:

Surveillance cameras
Automated entry systems
Motion detection systems
Fire detection systems
Smoke detection systems
Buried fiber optic cable
Telephone systems

PMRF security personnel have an active interest in the program and should be expected to ask many questions and to request to observe the tests.

The following procedures, clearances, and limitations may apply for Force Protection sensors:

RF clearance
Laser safety clearance
Ultrasonic interference clearance
Digging and trenching clearance
Telephone bandwidth usage clearance
Line of sight/obstruction clearance
Tower erection clearance
Power usage clearance
Building 969 floor weight limitations
Building 969 power consumption limitations
Building 969 air-conditioning capacity

In general personnel working at PMRF must have a U.S. security clearance. Non-cleared personnel must be escorted by a person with a security clearance. In addition areas at the base that deal with highly classified work are likely to be off limits.